

# GEORGE ENGELMANN BOTANICAL NOTEBOOKS

*Pagination Note:  
Since many of the items lack a specific  
page number, the page number displayed  
online refers to the sequentially created  
number each item was given upon  
cataloging the materials.*

43.5

Mar

64.4

70.8

mean  
umid  
m  
thro

.M.

6  
9  
...9° F.  
9  
...4  
3  
...

8

III Articulati  
1. Subsinguliflori

870-391



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cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN

9344

MISS  
GEORGE

6 and 9, from  
these hours thr

At 6 A. M. 8.6  
1861 ..... 8.6  
1862 ..... 8.9

48.9  
48.9



0  
cm

1 2 3 4 5 6 7 8 9 10

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MISSOURI  
BOTANICAL  
GARDEN

58.1 55.0 69.7 75.1 81.2 80.7 72.1 57.3 42.6 41.3 56.4° F.  
43.2 55.0 69.7 75.1 81.2 80.7 72.1 57.3 42.6 41.3 56.4° F.

RELATIVE HUMIDITY.

Jan.	Feb.	Mar.	Ap'l.	May.	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean of Year.
1861...	72.2	63.3	64.5	61.5	66.3	70.8	66.3	69.6	77.3	76.6	69.0	74.3 69.5
1862...	85.3	73.9	70.8	67.0	57.3	67.0	66.8	64.3	74.2	67.2	69.5	74.6 69.8

III. Yearly mean of Positive Electricity of Temperature, and of Relative Humidity of the Atmosphere, at the hours of 6, 9, 12, 3, 6 and 9, from morning till night, based upon daily observations at these hours through the years 1861 and 1862, at St. Louis, Mo.

ELECTRICITY.

	At 6 A.M.	At 9 A.M.	At 12 M.	At 3 P.M.	At 6 P.M.	At 9 P.M.
1861	8.6	10.0	9.2	7.9	8.7	6.9
1862	8.9	10.0	9.1	7.3	8.1	6.8

TEMPERATURE.

1861	48.9° F...	54.9	61.6	63.6	59.3	54.3
1862	48.9	55.0	60.9	62.3	58.0	53.6

RELATIVE HUMIDITY.

1861	86.4	71.3	60.3	57.2	65.1	77.3
1862	85.3	70.6	60.0	57.5	67.6	78.0

370-384

p. 105

*I. pilocarpus* May 24-1823  
and *I. Conradi* Tuckerm MSS

~~See~~ Tor. N.Y. State Flora II. 328

*I. vivipara* Conrad Journ Ac. Phil. VI.



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BOTANICAL  
GARDEN

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112 | 191 | 211 | 230 | 259 | 265 | 351 | 550 | S.E. .... | 50

V. Positive or Negative Electricity in the Observations of '61. & '62.

	Positive Electricity.		Negative Electricity.		No Electricity, or 0.		Highest Positive Electricity.	
	1861.	1862.	1861.	1862.	1861.	1862.	1861.	1862.
Jan.....	179	179	3	5			40°	40°
Feb.....	162	166	6	2			34	33
March ...	168	179	15	8	1	1	30	48
April ...	157	157	12	22	1	3	33	52
May ...	171	180	17	5	5	2	25	32
June ...	162	143	5	2	8	1	16	21
July...	183	153	3	8	1	20	14	11
August..	176	143	5	4	6	24	15	19
Sept....	169	117	1	1	6	40	18	23
Oct....	162	143	4	1	10	61	33	35
Nov....	172	157	2	3	20	41	42	42
Dec....	175	166	5	7	6	6	37	35
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	2046	1883	78	67	59	225	42°	52°

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS

Jan 1866

*Imnos peloarpus* in Herb E Meyer  
is in part at least J. Conrad's!

A specimen <sup>in his Herb</sup> with the label "J. peloarpus,  
pide Kentt, ex Herb Tuckerman" <sup>Mey.</sup>

is this J. Conrad's?

all other specimens in the sheet, supposed  
*J. peloarpus*, belong here.

Whether the drawings "ex herb Pringle"?

Lattaspe's descript: foliis setaceis compressis sub-  
enodatis . . . sporis subbifloris -  
seems to point here also; but Meyer's old  
not compare his peloarpus with lanceolatus  
and panopeus.

Standl says of Conrad: an eadem species as peloarpus?



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN



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9486



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cm

1 2 3 4 5 6 7 8 9 10

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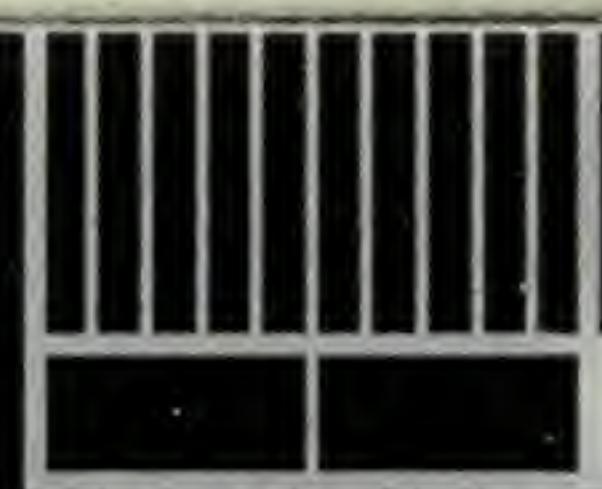


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*Turritis polycarpa*

April 24 1866

× 4



0 1 2 3 4 5 6 7 8 9 10  
cm

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Cor. 4<sup>th</sup> & Olive Sts., St. Louis.

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Ch3b



0 1 2 3 4 5 6 7 8 9 10  
cm

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*D. peltorhynchus*

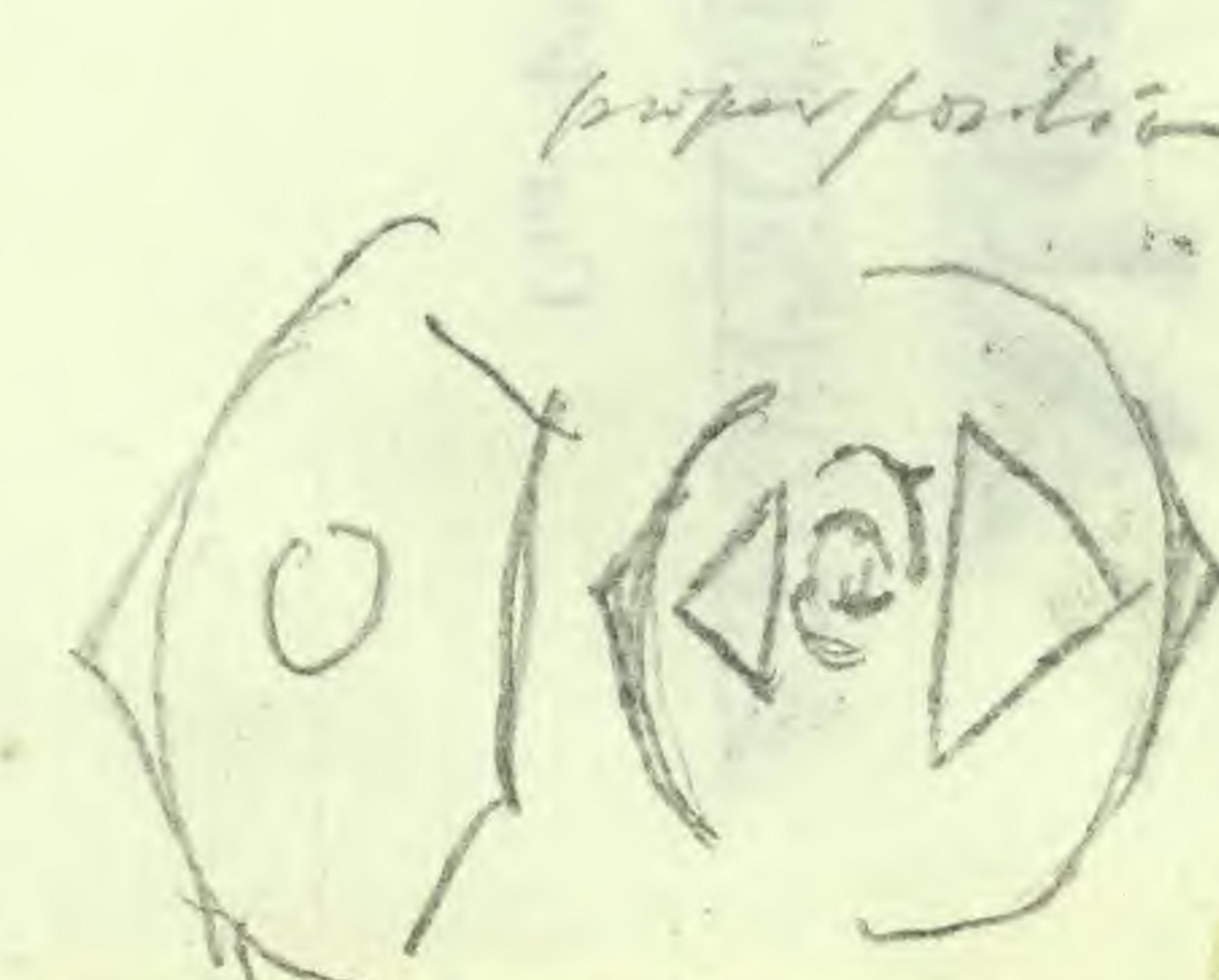
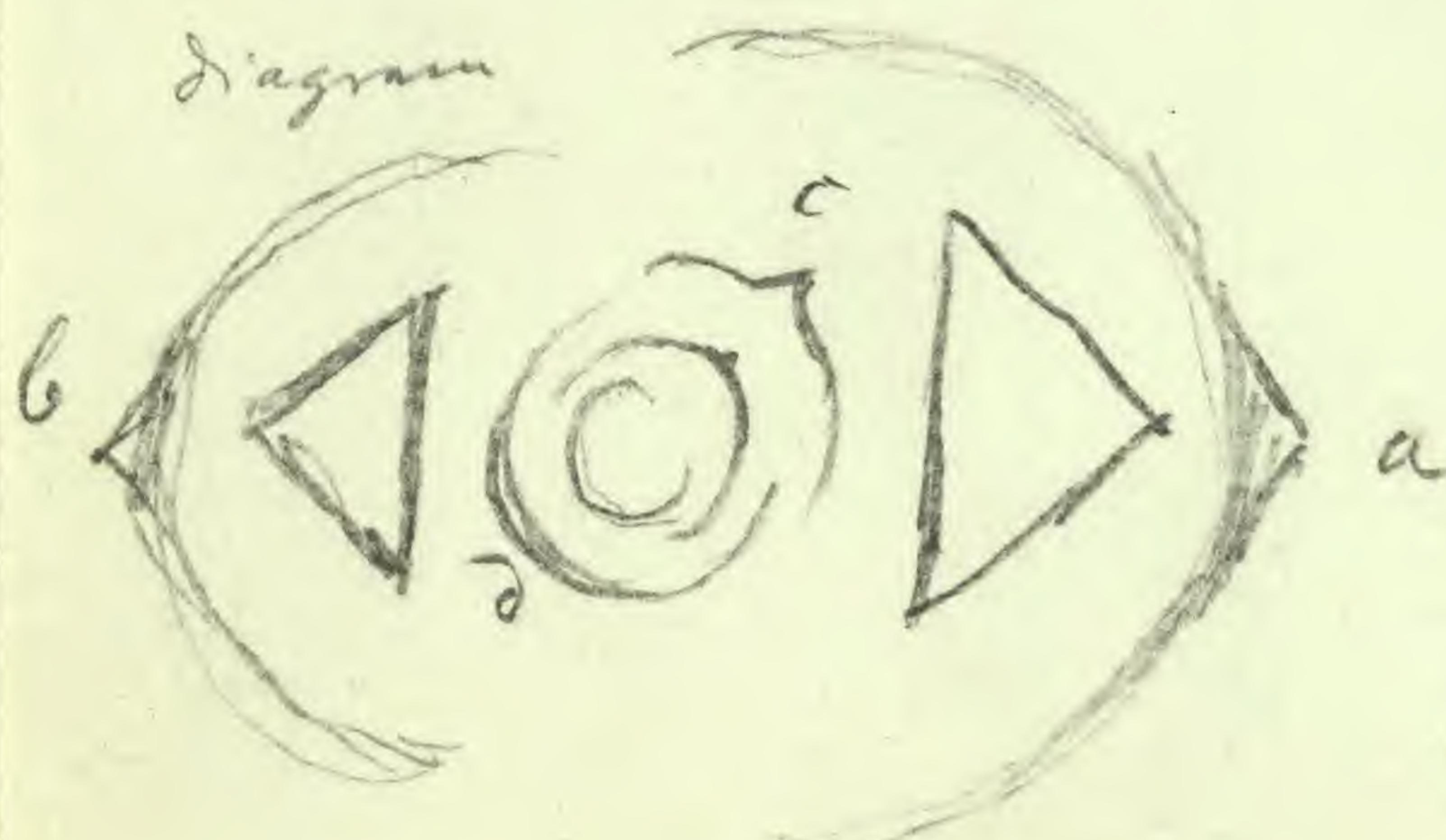
April 25 1866

1. C, apparently a bract, or the first leaf  
of the leafy branch, oppost  
th leaf 2



fig 1 the central  
bracts have grown  
out into a branch

2. C. in fig 2 is the lowest bract  
of a bunch of very small  
central bracts, such as terminates  
the head of most  
or all head flowering  
Juncs.



0 1 2 3 4 5 6 7 8 9 10  
cm

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MISSOURI  
BOTANICAL  
GARDEN

9348

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GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10  
cm

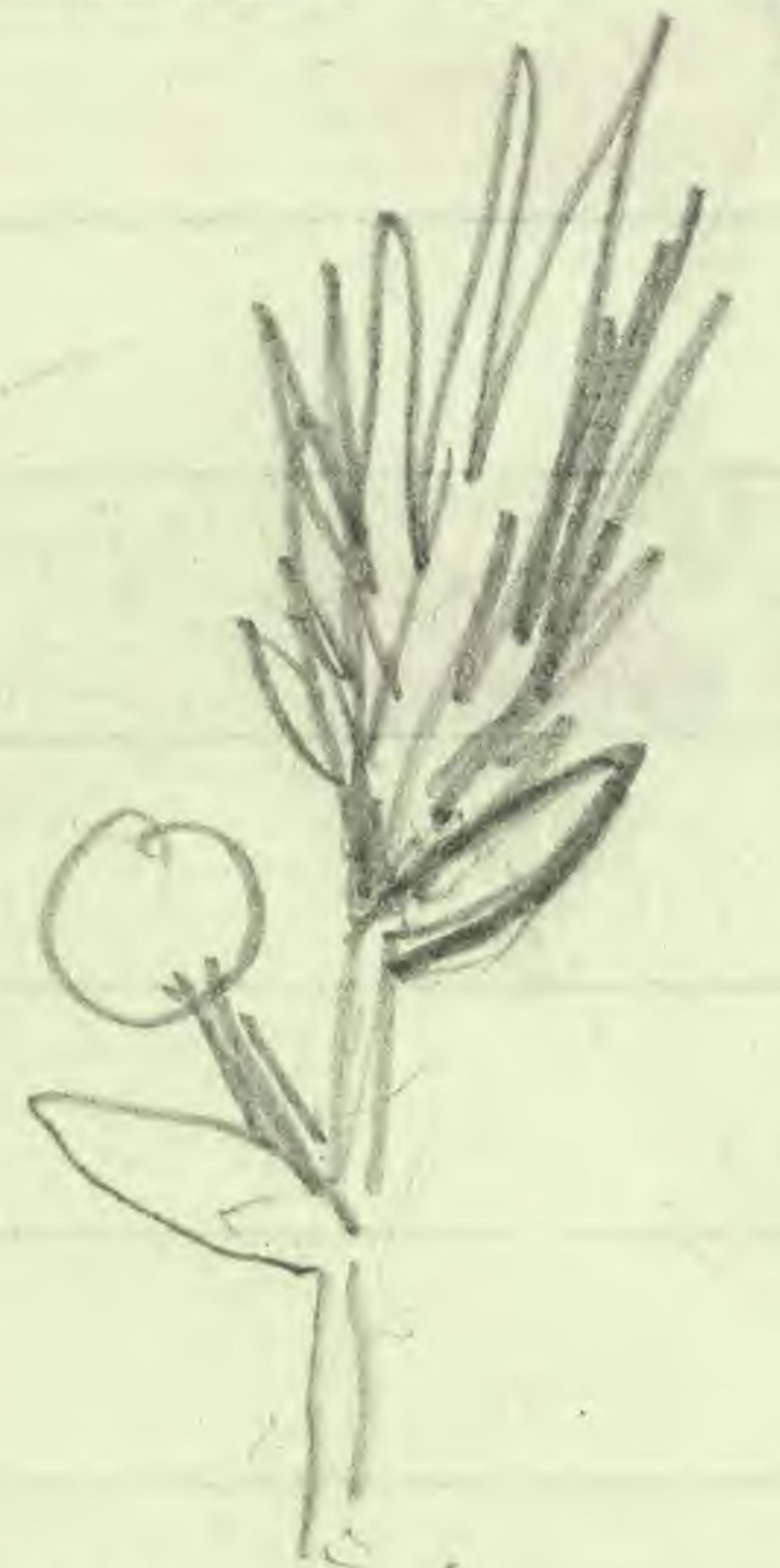
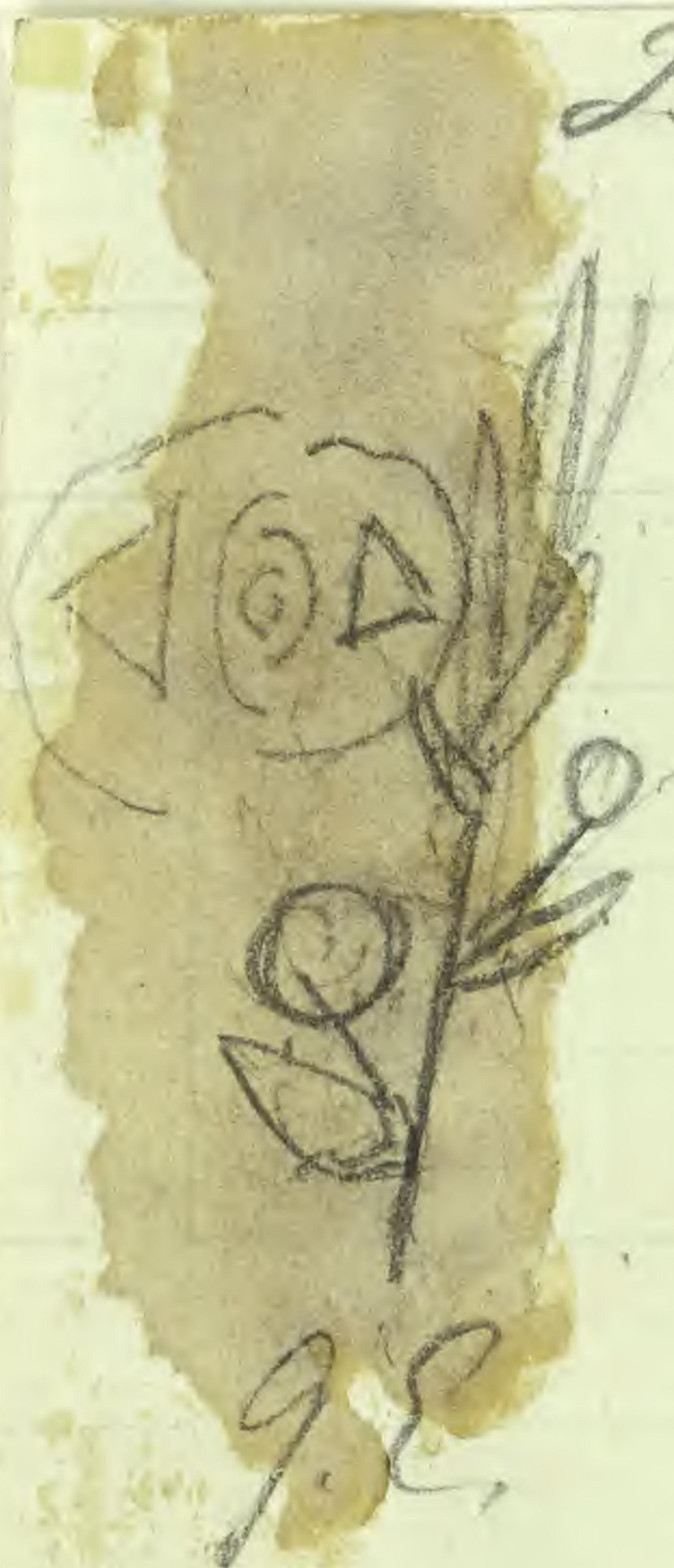
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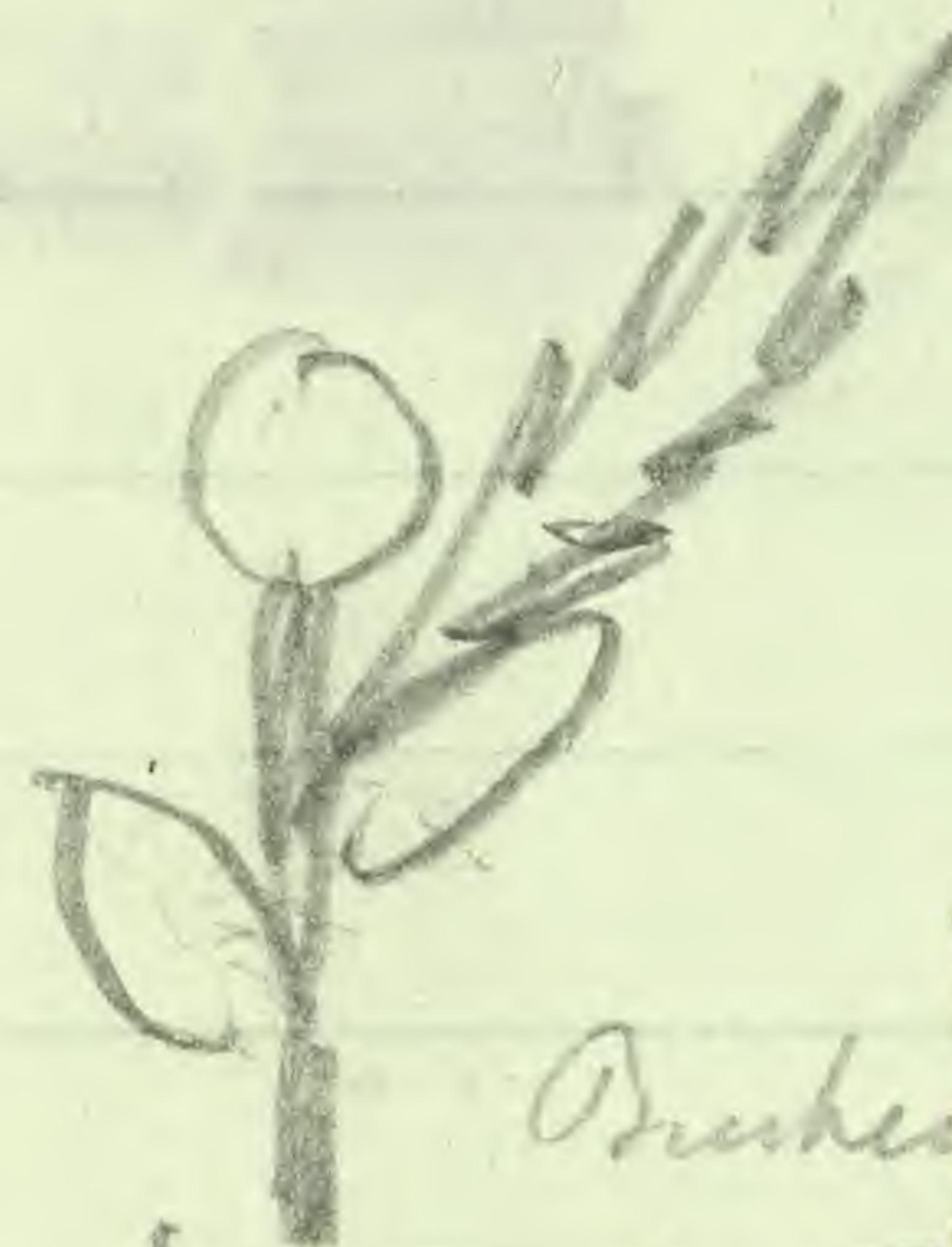
MISSOURI  
BOTANICAL  
GARDEN

*L. perlongipes*

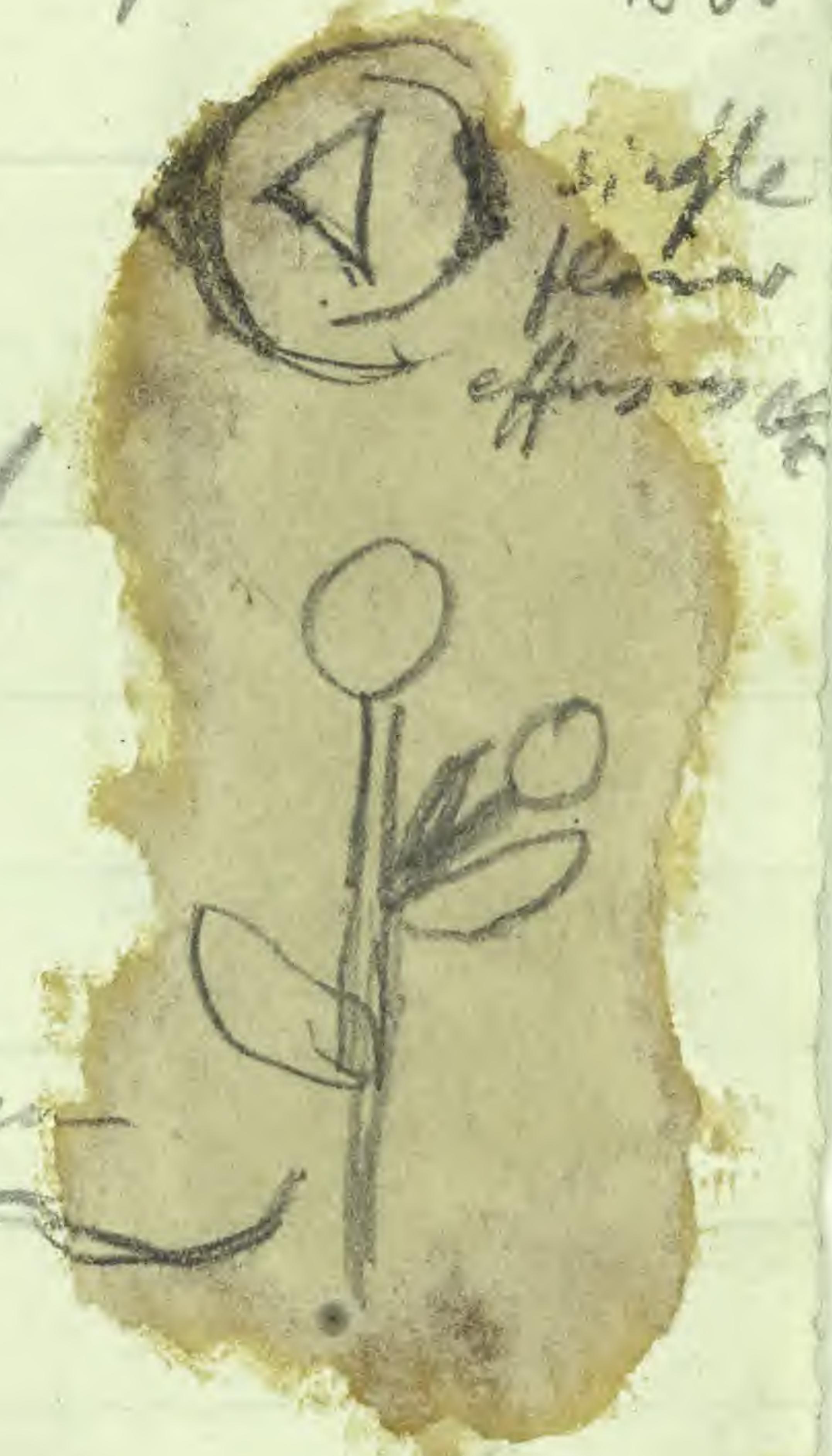
April 25<sup>th</sup> 1866



Buchenan  
fig. 408



p. 434



single  
flower  
effusus



0 1 2 3 4 5 6 7 8 9 10

cm

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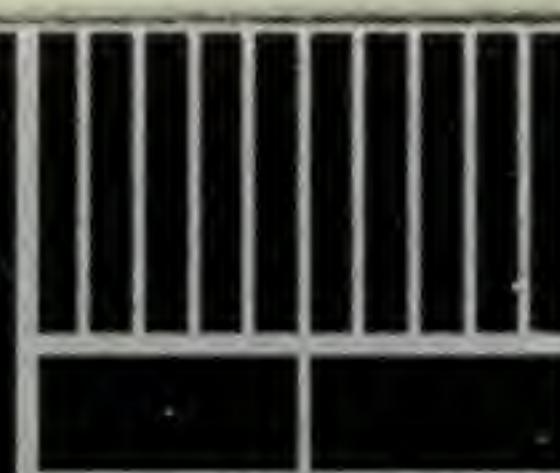


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GARDEN

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GEORGE ENGELMANN PAPERS

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9349



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

*T. petorarpes* (Conrad)

	<u>No Ph. L. S.</u>	<u>Gray Eng. L.</u>	<u>Eng. L.</u>
N. Jersey	Schweinfurth Conrad Torry Levy	Gray Gray Torry Olney	Eng. L. Smith (Gray) Bebb Lord Smith Olney
Verdinsl.		Olney	Olney
Lay. Island		Torry	
Massachusetts		Oakes Little	(Tucker)
S. Carolina			Curtis
Canada east, St. John			Monroe
White Mountains			Tuckerman (Tucker)
Potomac Co. N.Y.			Carry
Delaware			H. Bentham
Lake Superior			Robbins.



0 1 2 3 4 5 6 7 8 9 10  
cm

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APOTHECARY & PHARMACEUTIST,

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9350



0 1 2 3 4 5 6 7 8 9 10

cm

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Ionurus Cerradensis Tuckem.

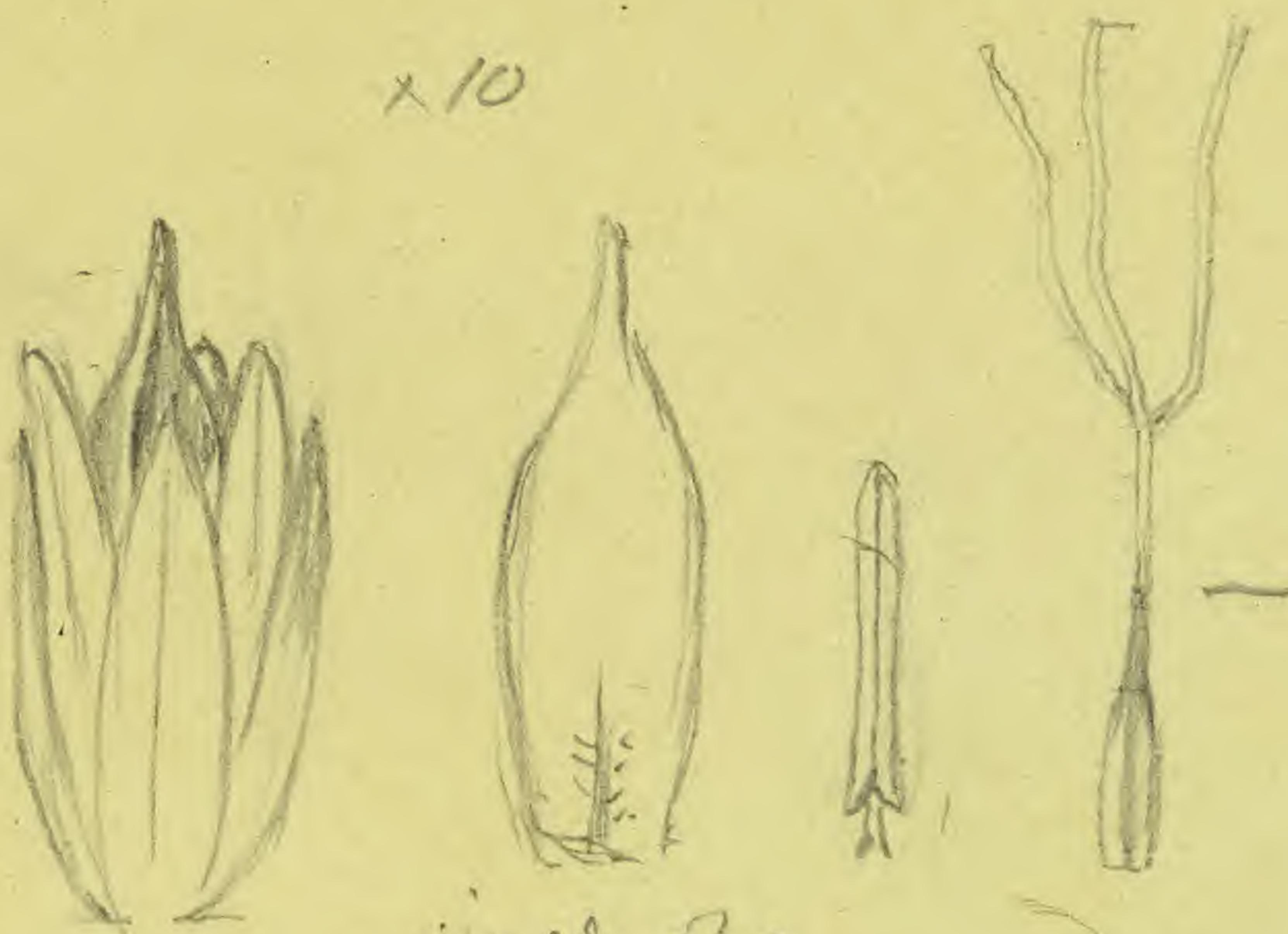
Aug 14 1865

Rhode Island, Curtis

x60



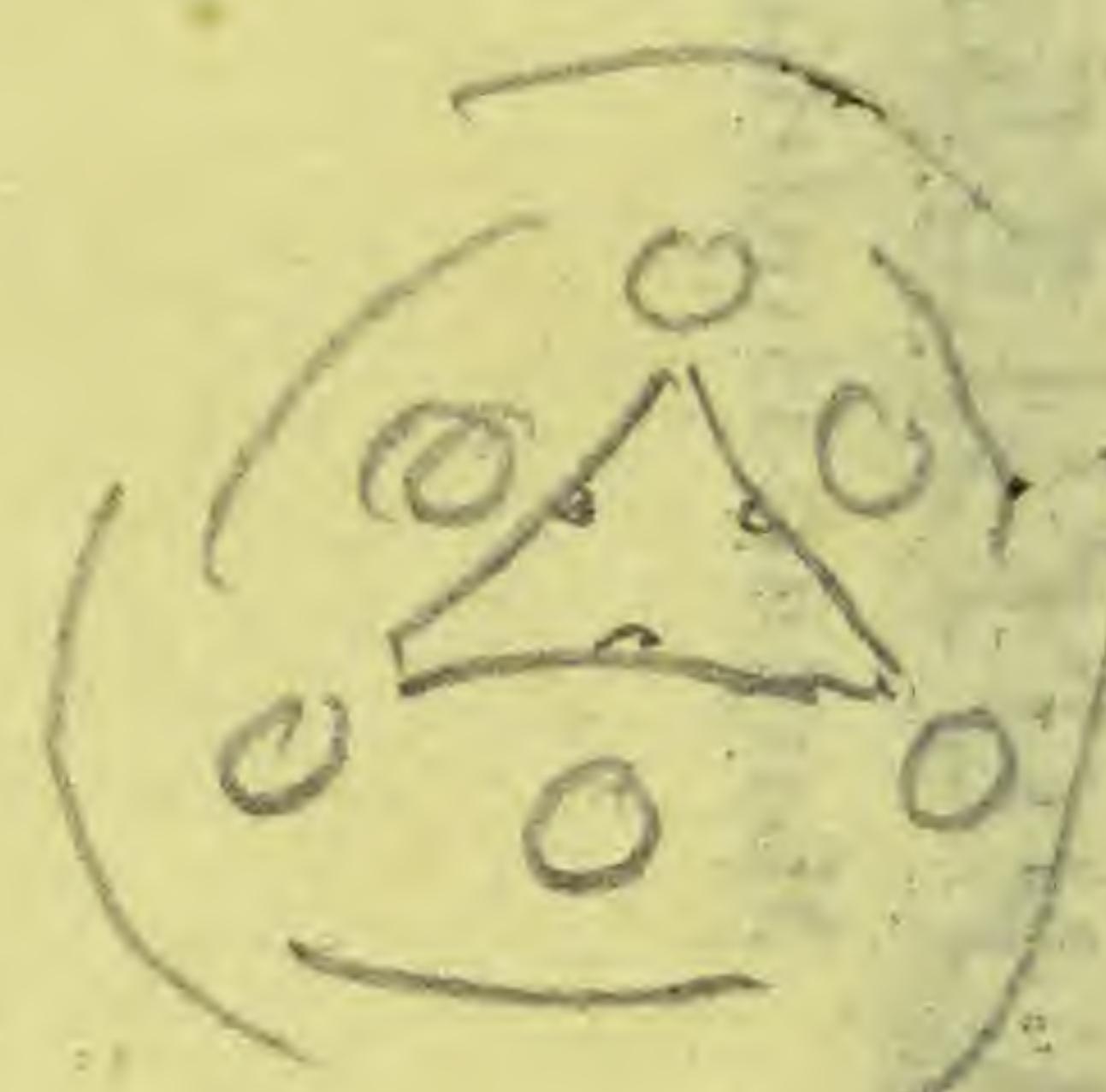
x10



inside of a  
valve, with  
plaques scarcely  
prominent, only  
at base!

(too  
narrow at  
instant but  
apparently a  
coarse net work)

Capule 1-looking



0 1 2 3 4 5 6 7 8 9 10

cm

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((( ALEX. LEITCH ))  
APOTHECARY & PHARMACEUTIST,  
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPEHS

158



0 1 2 3 4 5 6 7 8 9 10

cm

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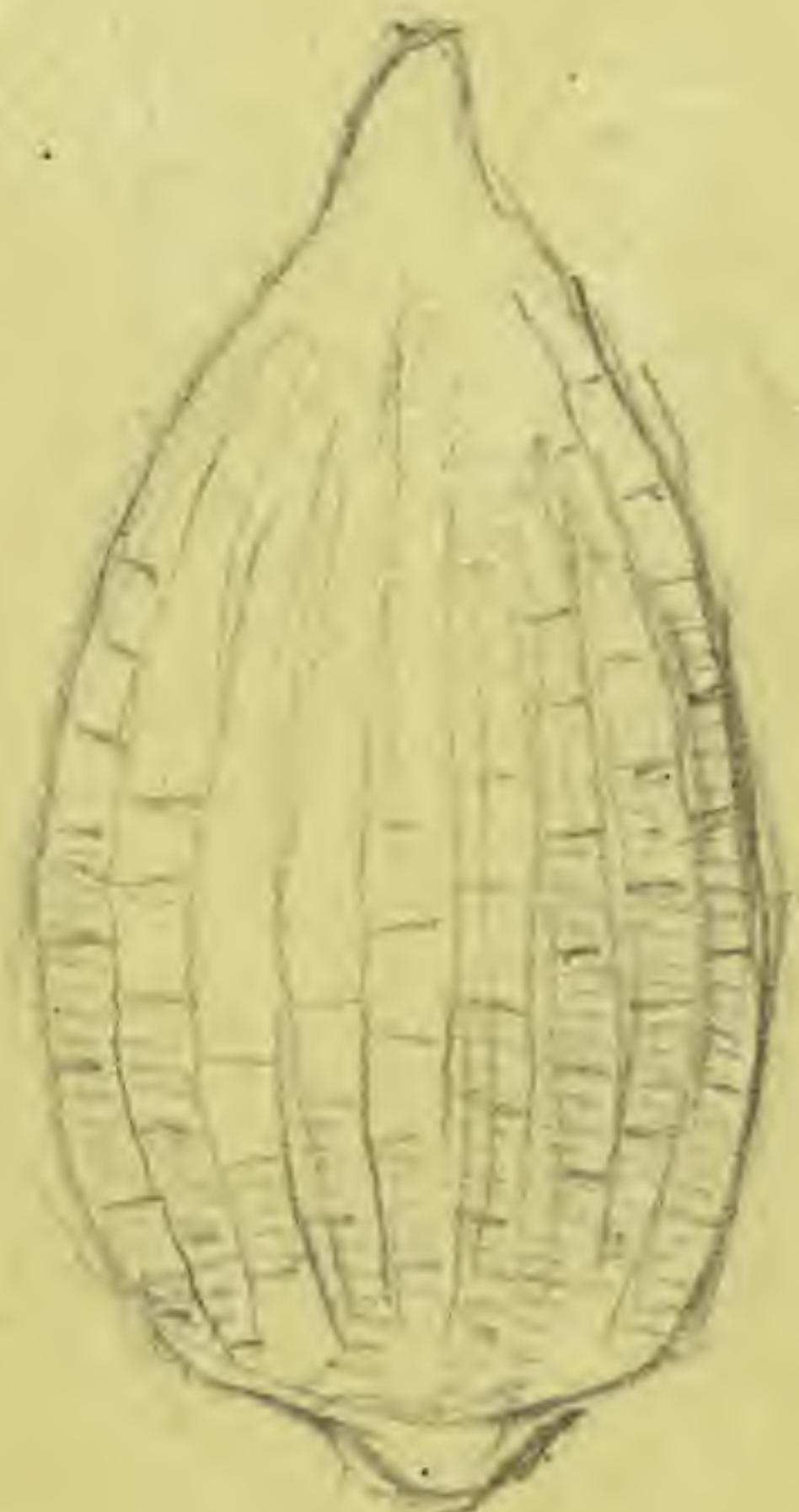
MISSOURI  
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GARDEN

Torrey, Canada tub

Sept 3 1865

P. M. Bartram, New Jersey. M. S. Webb in  
Herb & Hall

$\times 60$



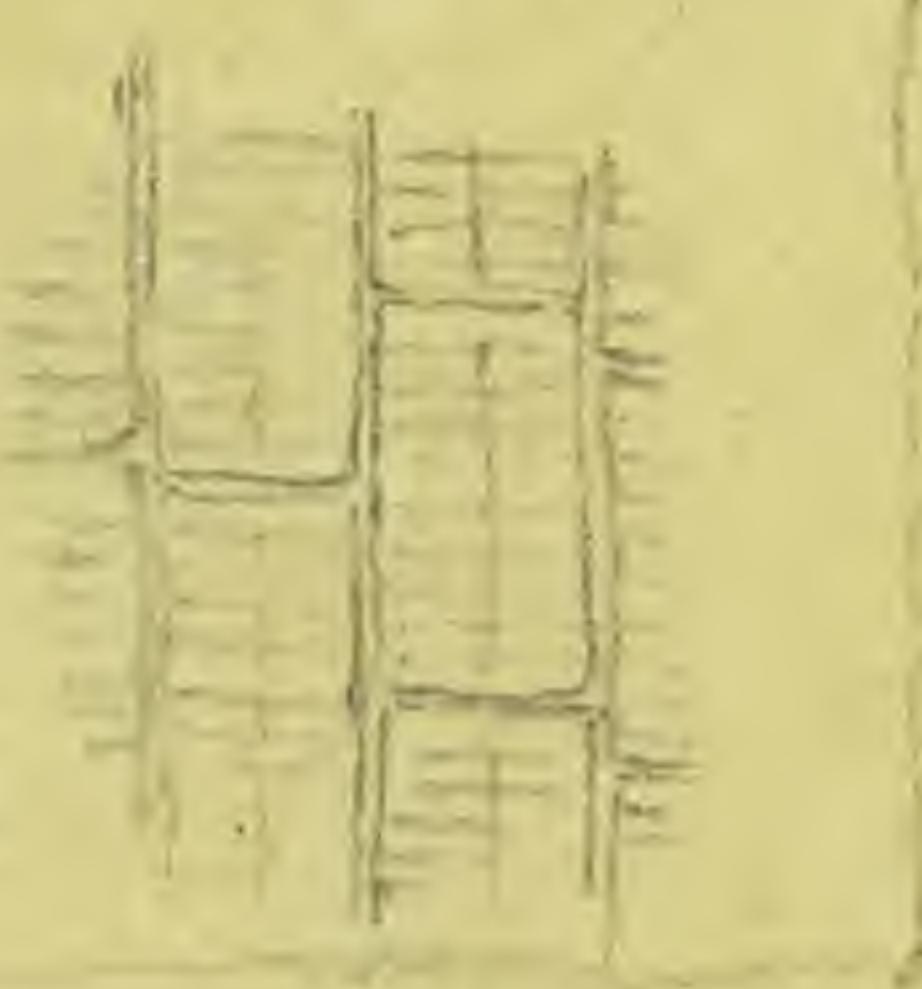
upper cell

$\times 10$



flowers single or  
in twos

$\times 150$



anv

sepala obtusa

ovovisine mucronata

large leaf  $\times 10$



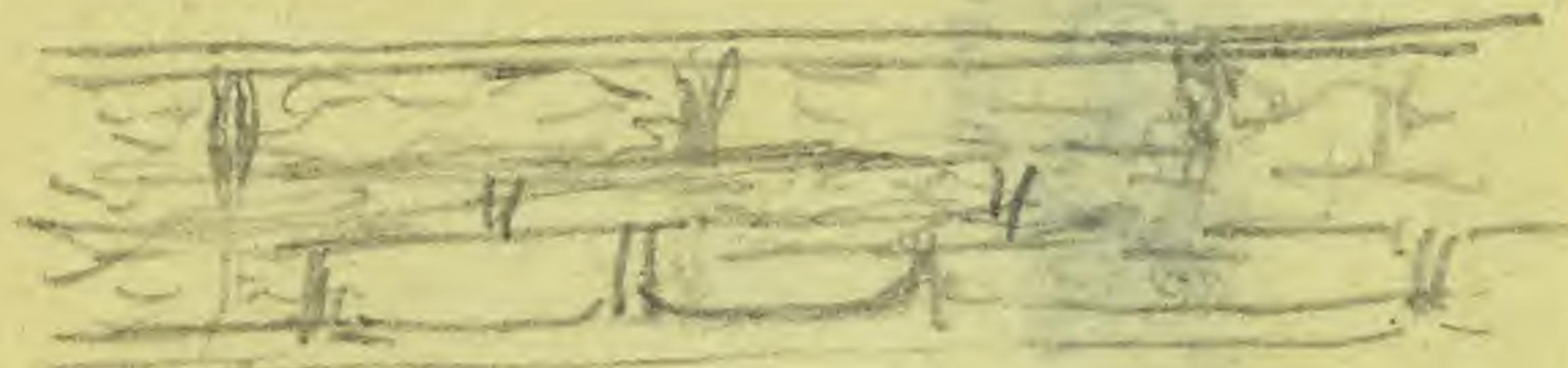
base with sheath



a little  
above it



middle



length section



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

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2552

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0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

J. Comard's vivipara Sept 25 1865

Delaware - 46 116 M.

X 10



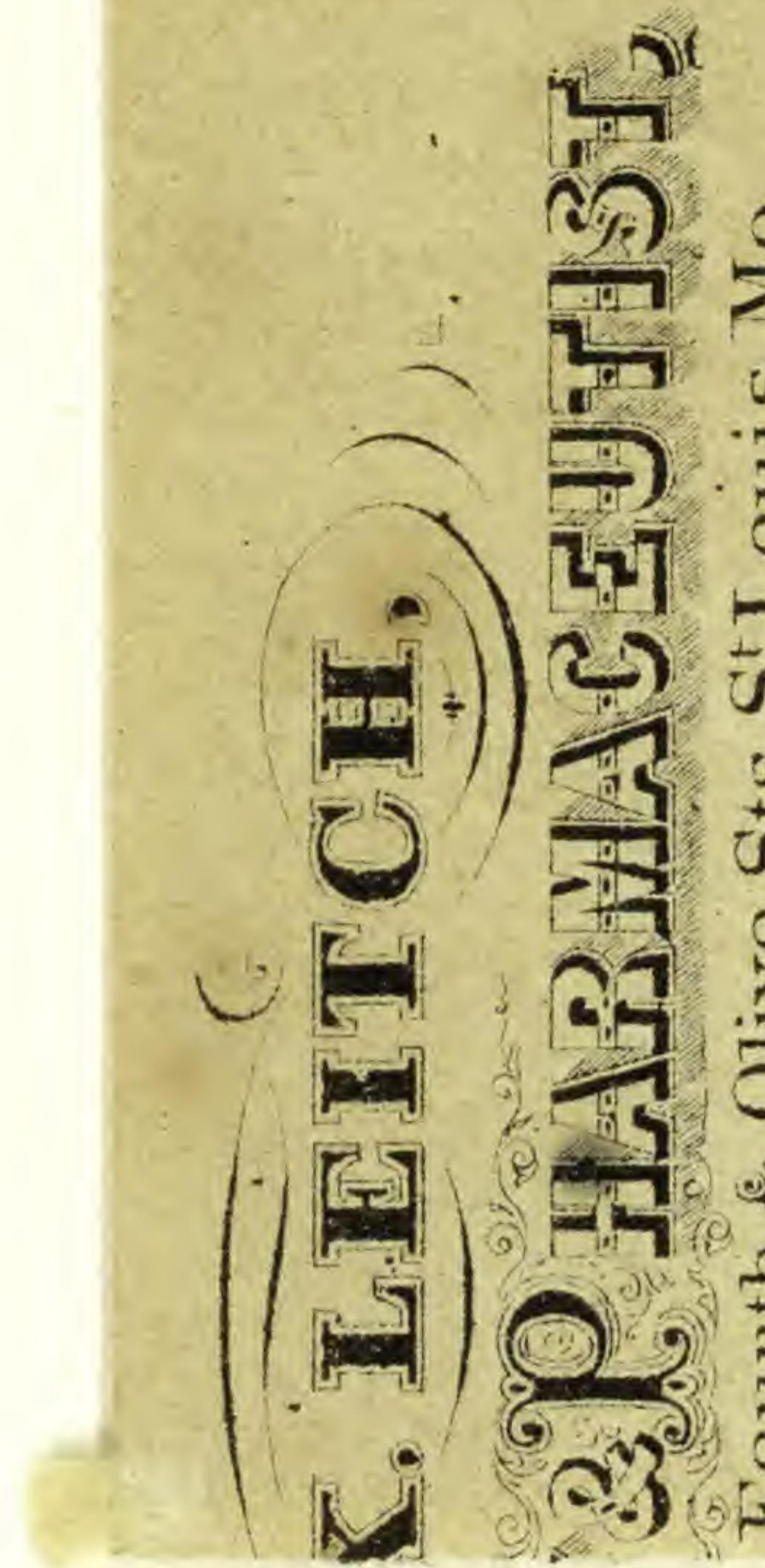
0 1 2 3 4 5 6 7 8 9 10

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GARDEN



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0 1 2 3 4 5 6 7 8 9 10

cm

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Bernhardi presented on his herb.  
a specimen of "I. Comans" sent from  
Delaware, and which he labeled

*I. sparsiflora* n. sp.

as *I. subtilis* Meyer?

showing that he also thought of the identity  
of both plants.

Hook. Herbarium II, 191 refers *subtilis* to  
*I. uliginosus* Sibth. which according to his  
statement is synonymous with *I. peruviana*

Laharpe says: cephae reddish



0 1 2 3 4 5 6 7 8 9 10

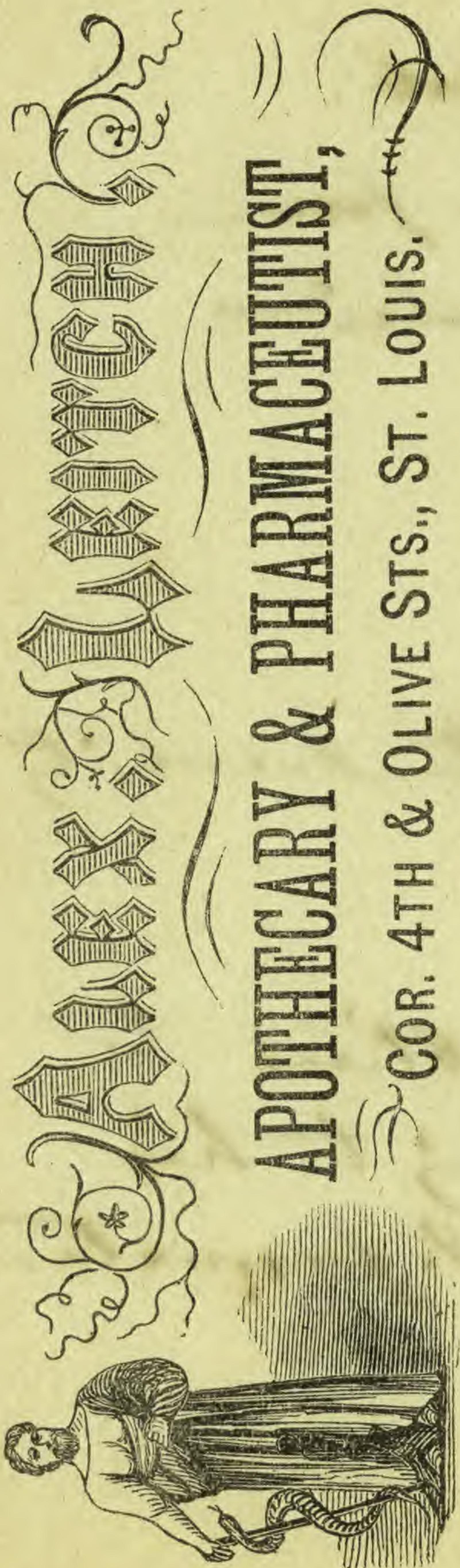
cm

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GARDEN

9354



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GARDEN  
BOTANICAL PAPERS  
MISSOURI  
ENGELMANN  
George



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

have it for my botanical album. I wrote to Chapman regarding Isoetes flaccida. We may place it among the doubtful species, the not retouched of Shuttleworth notwithstanding.

I send you herewith a slender form of I. Engelmanni which I suspected to be <sup>that</sup> flaccida. All the specimens I have seen are exactly the same. They were collected by Dr. Bridges in a pond near Newport R. I. in deep water. I sent some to Durden who pronounced it an Engelmanni. They are so different of our ordinary forms and answering so well the description of Shuttle. With the exception

Nuphar Odorata, var. sanguinea, as there is but one flower in the general herb., but I sent you a spec. of our small Jersey form, with purple leaves and purplish flowers, forgetting to say that Nuttall's spec. belonged to that variety. In Nuttall's specimen all or almost all the anthers are transformed in petals, more or less perfect. This is all I have to say about Nuphar



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GARDEN

9355  
Juncus viviparus, S.W. Conrad.

from Vol. VI, part 1<sup>st</sup> p. 165. of the Journal of the  
Phil. Acad. of Nat. Sciences - Old Series. -

Stem erecto, oligophyllo, superne paniculato;  
rot. teretibus, nodoro-articulatis; flor. solitariis, subussi  
-ibus  
- in stem slender, fr. 8-12 in. high, round, panicu-  
lately branched above; branchlets, after flowering, generally,  
bulbiferous. Sheaths of the branches linear lanceolate,  
acute-nerved. Leaves terete nodorily articulated, sheathed  
below. Sheaths striated, bifid and membranaceous at  
the apex, with the segments rounded, entire. Lower  
small, solitary, axillary and lateral, nearly sessile  
Leaves of the calyx lanceolate acute; others oblong,  
included. Stigmas foliform, exserted. Root somewhat  
creeping, with strong <sup>fibrous</sup> radicles. Grow in meadows and  
wet-sandy places. Flowering late in the summer.  
Near Burlington, N. Jersey, Conrad  
Near Salem, Mass. Pickering - specimen more  
slender than the Jersey plant.

A good description!!!  
March 1866 E. Durand scr.



0 1 2 3 4 5 6 7 8 9 10  
cm

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*Juncus subtilis* Meyer  
*J. flexuosa* Michx

	Jan.	Feb.	Mar.	Ap'l.	May.	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
1861	32.2	40.4	44.8	58.1	64.1	76.9	77.5	78.6	69.1	57.9	46.0	39.7	57.1° F.
1862	28.9	30.2	43.2	55.0	69.7	75.1	81.2	80.7	72.1	57.3	42.6	41.3	56.4° F.

RELATIVE HUMIDITY.

	Jan.	Feb.	Mar.	Ap'l.	May.	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
1861	72.2	63.3	64.5	61.5	66.3	70.8	66.3	69.6	77.3	76.6	69.0	74.3	69.5
1862	85.3	73.9	70.8	67.0	57.3	67.0	66.8	64.3	74.2	67.2	69.5	74.6	69.8

Mean of  
 Relative Humidity.

III. Yearly mean of Positive Electricity of Temperature, and of  
 Relative Humidity of the Atmosphere, at the hours of 6, 9, 12, 3,  
 6 and 9, from morning till night, based upon daily observations at  
 these hours through the years 1861 and 1862, at St. Louis, Mo.

ELECTRICITY.

	At 6 A.M.	At 9 A.M.	At 12 M.	At 3 P.M.	At 6 P.M.	At 9 P.M.						
1861	.....	8.6	.....	10.0	.....	9.2	.....	7.9	.....	8.7	.....	6.9
1862	.....	8.9	.....	10.0	.....	9.1	.....	7.3	.....	8.1	.....	6.8

TEMPERATURE.

1861	.....	48.9° F...	54.9	.....	61.6	.....	63.6	.....	59.3	.....	54.3	
1862	.....	48.9	.....	55.0	.....	60.9	.....	62.3	.....	58.0	.....	53.6

RELATIVE HUMIDITY.

1861	.....	86.4	.....	71.3	.....	60.3	.....	57.2	.....	65.1	.....	77.3
1862	.....	5.3	.....	70.6	.....	60.0	.....	57.5	.....	67.6	.....	78.0

385-9



0  
1  
2  
3  
4  
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10  
cm

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GARDEN

Dec.....	112	191	211	230	259	265	351	550	S.E. ....	50
<b>V. Positive or Negative Electricity in the Observations of '61 &amp; '62.</b>										
	Positive Electricity.		Negative Electricity.		No Electricity, or 0.		Highest Positive Electricity.			
	1861.	1862.	1861.	1862.	1861.	1862.	1861.	1862.		
Jan.....	179	179	3	5		2	40°	40°		
Feb.....	162	166	6	2			34	33		
March ..	168	179	15	8			30	48		
April ...	157	157	12	22			33	52		
May .....	171	180	17	5			25	32		
June ...	162	143	5	2			16	21		
July.....	183	153	3	8	1	1	20	14	11	
August..	176	143	5	4	1	1	24	15	19	
Sept.....	169	117	1	1	1	6	40	18	23	
Oct.....	162	143	4	3	1	10	61	18	35	
Nov....	172	157	2	7	3	20	41	33	42	
Dec.....	175	166	5	0	6	6	16	42	42	
	2046	1883					225	42°	52°	
			78	67						
					59					
						225				
							42°			
								52°		



0 1 2 3 4 5 6 7 8 9 10  
cm

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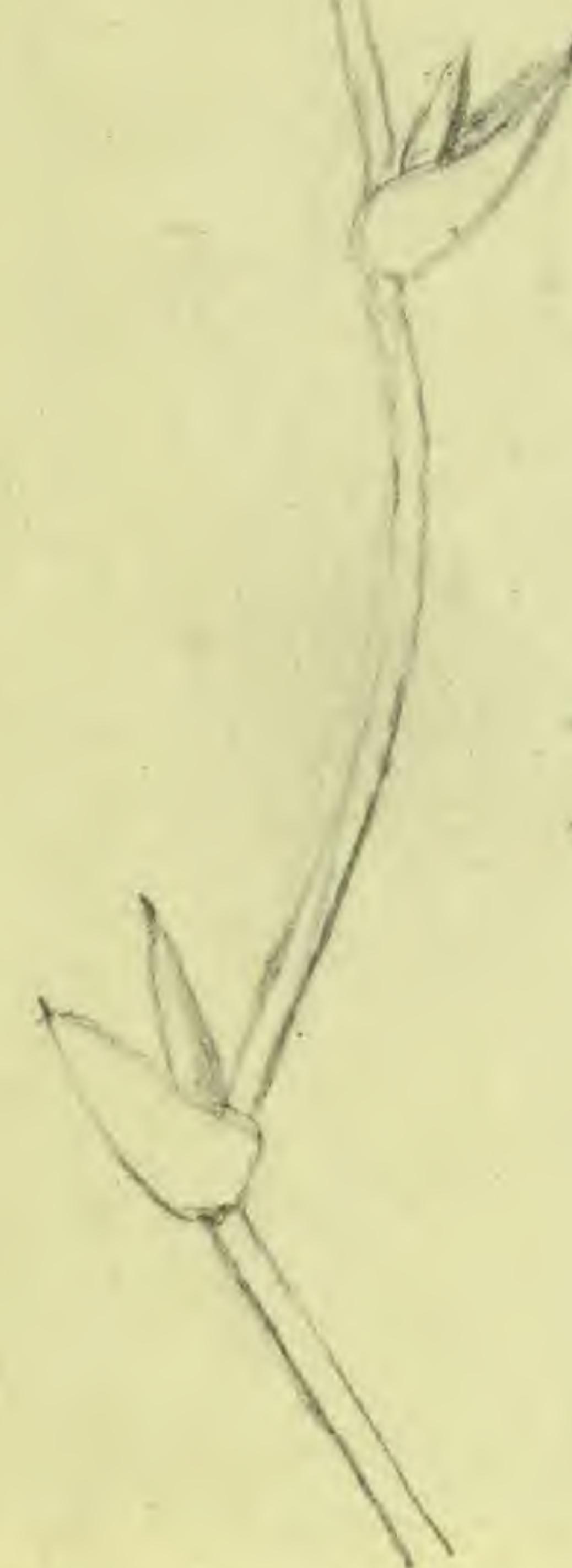
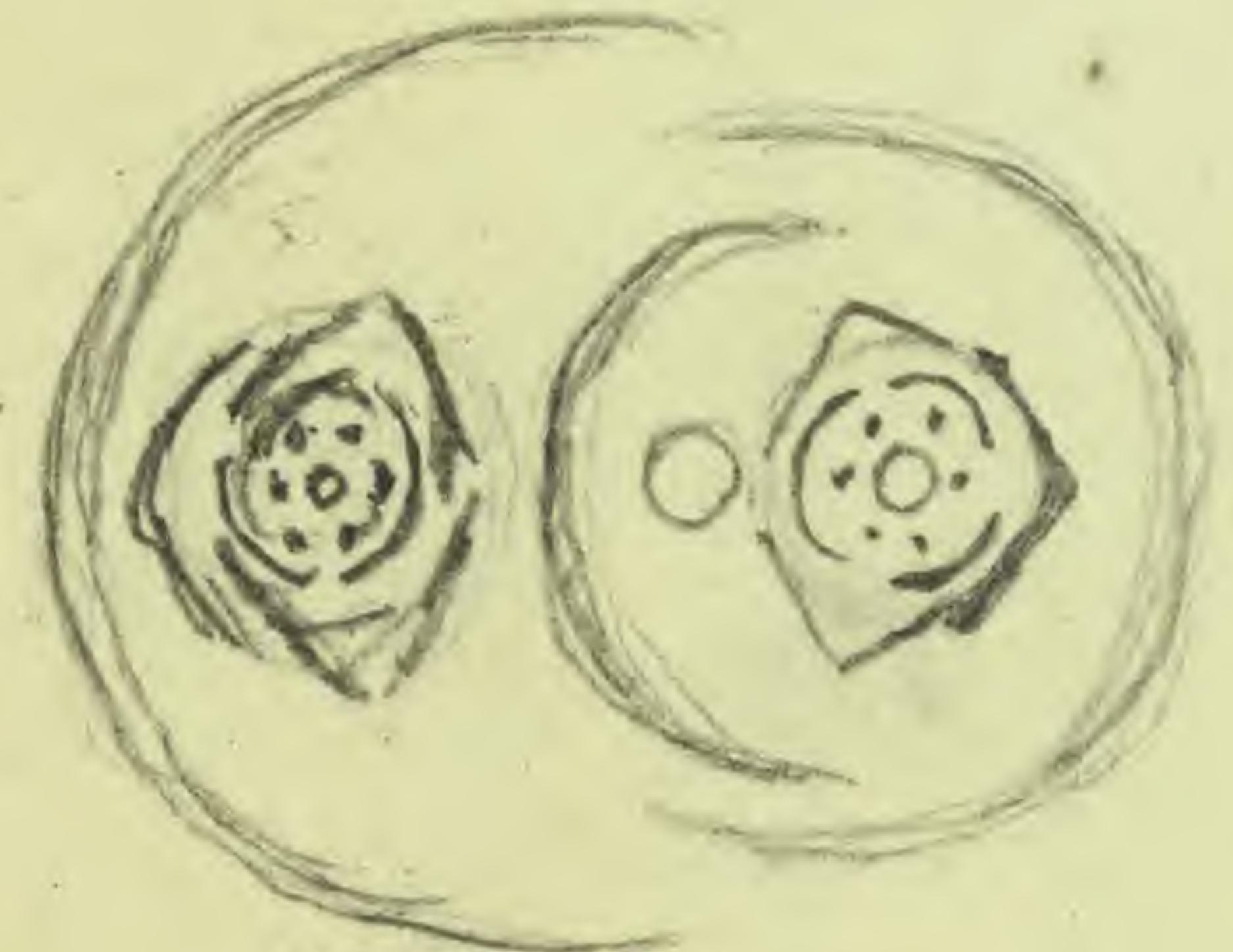
MISSOURI  
BOTANICAL  
GARDEN

x 4

*Immos floritans*, Michx

Febr 6 1867

ex Hb. Mus. Paris 1866



not quite certain,  
whether 3 or 6 stamens  
whole man pressed together,  
too young.



0

1

2

3

4

5

6

7

8

9

10

cm

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658b

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0 1 2 3 4 5 6 7 8 9 10

cm

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Jaeger subtilis Meyer Regel p. 21 (1823)

Canule radicans

Folia que capillaris

Floribus sub-birnis

Persianthae lassaiis obtusis, exterioribus  
longioribus

Staminibus triloculis?

I. fluitans Michx. added here!

I. verna L. Steyermark.

Canada

German, in stylum attenuatum, persianthae  
pian brownis est

Lehmayer 477 Remond 335 Slendre 301

Torrey H. I. 267 Beck 373 I. deboutii Willd.

3 andros sepals obtuse; ext. shorter



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

9358

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APOTHECARY & CHARMER,  
))

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GARDEN  
BOTANICAL PAPERS  
MISSOURI ENTELMAN  
GROUSE



0 1 2 3 4 5 6 7 8 9 10  
cm

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Juniperus sibirica E. Meyer Synopsis Leyde p. 30 (1823)

Culm. radicante foliisque capillaris, floribus subbiniis  
perianthi laevioribus oblongis, posteriores longioribus  
(staminibus tribus?)

J. fluitans Michx Am. 1. 191 Wiles ! Herb

J. verticillatae Purm Am. 1. 237

J. no 15 Muhlbr? Griseb 219

Icon: noster inedit.

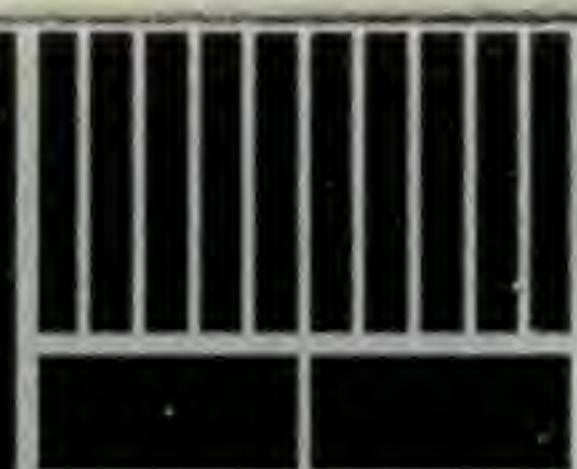
Hab. - alpinis et nivis Canadae (Ova!)

Capsulae non vidi; germinatio pyramidata  
Istaminea in stylis attenuatis perianthio  
parum brevius est.

Juniperus fluitans Michx H. Do Am. I. 191

Culmis capillaris, surculis numerosis septentibus  
inundatione fluctuatis; floribus paucissimis  
fasciis que s. ramulos terminantibus

Hab. - annibus Canadae



0 1 2 3 4 5 6 7 8 9 10  
cm

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1

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6

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9

10

cm



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BOTANICAL  
GARDEN



*Tunus fluitans* Mich.

Hab. Willdenow. № 6882. Habitat in amictor Canadæ.

Frigo fuit E. Meyer griffibus:

*Tunus fluitans* Mich. fol. 1.

Euadēm vidi in herbis Vahlī sub nomine *Tunus apillaris* a Lamariis communiatum. Quum vero tam *T. apillaris* Lam. quam *T. fluitans* ejusdem sint species longe diverse, hanc *Tunum subtilem* in *Monographia mea Tunorum inedita et Synopsis Lascularum* p. 31 dixi. In synopsis Tunorum cum omisi, quoniam nec specimina hinc tempore a me visi sunt perfecta, nec eorum patria mihi nota erat.

E. Meyer.

Dr Garecke scrips. Berol 26. 1866



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI  
BOTANICAL  
GARDEN

9360  
9396

MISSOURI BOTANICAL ENGLISH PROGRESSIVE  
GARDENING PRACTICAL BOTANICAL  
GARDENING



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Muhlenbergia : HC An-Phi  
= marginata  
Gifford

Dicotyledon in Corolla



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~~Kent p 233 refers *Muskilagii*  
to *pelocarpus*, ~~justly~~  
also going to *Connelli*  
with?~~

24



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4 *Ianus Muehlenbergii* Sprong Syst. 2. 106 (1825)  
1 *Ianus* N. 16. Muehlenberg per Spn. ad 15. sic gen.  
2 *I. pelocarpus* E. Meyer Synopsis p. 30 (1823) et in herb.  
= *I. tamucarpus* var. Sprng. inue. L. D. C. II. 107 (1825) Muehlenberg.  
3 *I. pelocarpus* De la Harpe var. (1825)  
5 *I. viviparus* Conrad in Linn. Ac. Phil VI. 105  
old series part 1  
6 *I. Conradi* Tuckerman in Trans. Amer. Acad. NY II. 328  
(1843)  
*I. sparsiflora* Benth. ! in herb. nos. et hb. reg. Brooklyn  
*I. Conradi* Gray Man. Ed. 2 482  
- - - Chapt. Fl. 495



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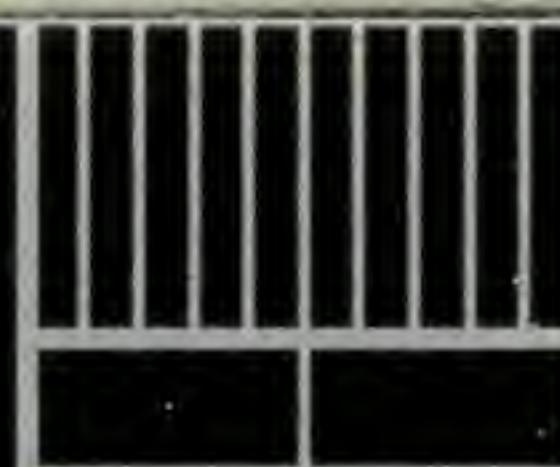
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GARDEN

Leitch & Company

South West Corner. File

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Immos Mühlbergii: Sprng Sept 2. 106  
floribus triandri: (1825)

culmo foliato foliis que linearis compresus  
nodosis, paniculæ ramis D'var' outis  
floribus genuinis sessilibus, sepelis  
luculentis obtusis ovalis capsula  
trigona mucronata bocionibus.

Rou. Cesar.



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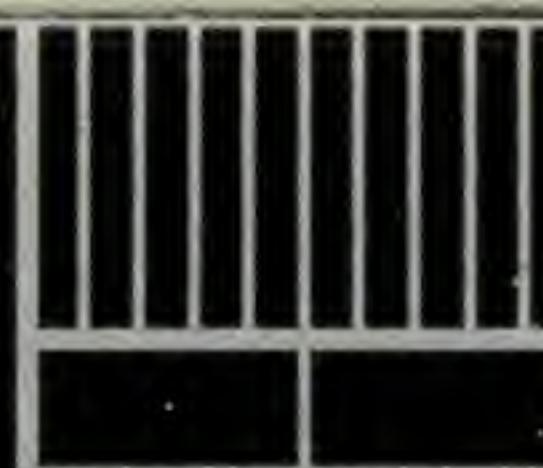


HEGARIES & PHARMACEUTISTS,

4th and Olive Sts., St. Louis.

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Imnos

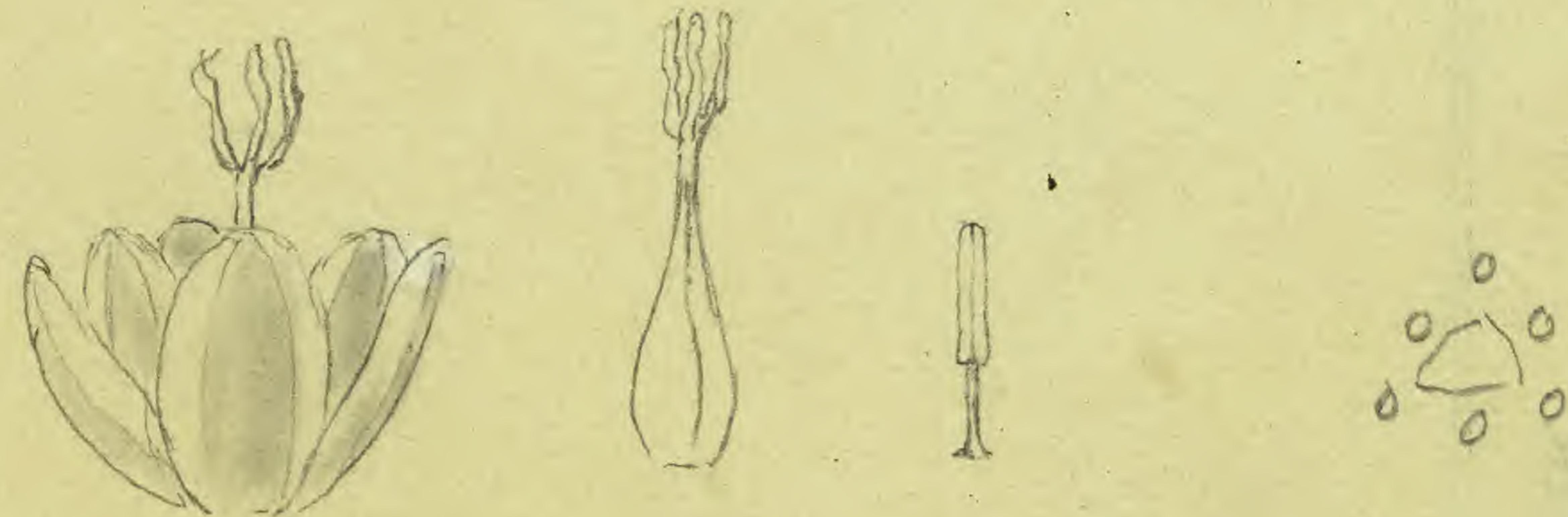
Febr 7. 1866

Dr

Robbins no 2, Lake superior

I. Grandi

var aequilongus



sepulis ovatis obtusis  
late marginatis, anthers  
aequilongis aequilongisquam



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cm

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BOTANICAL  
GARDEN

M. W. ALEXANDER,  
SOUTH-EAST CORNER FOURTH AND MARKET STREETS,  
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Mühl. Catal. 1813

269. *Juncus*

5. *echinatus* 4 }  
*polycephalus*, M. } many-headed  
 Habitat: Pens. Car. Georg. Cher.

p. 207. ex Descriptio uberior Graminum  
 D. Henrico Muhlenberg 1817

*Juncus echinatus.*

Culmo teretis foliato

Folii teretibus articulatis setaceis alter-  
 natis 2 basi longe vaginatis.

Pedunculis teretibus glomeruliferis, sim-  
 pliibus trifidisque.

Glomerulis 3 pedunculatis subrotundis  
9-floris. Cal: exterior 2-phylloides ovalis  
 mucronatus. Cal: interior 6-phylloides  
 linearis erectus aristatus.

Caps. acuta calici subaequalis 3-valvis  
 mucronata. Sem: plurima minuta ovata  
 utrinque acuta.

Habitat in Penns. Delaware et Carolina.

Habitus *J. verticillati*.

[My note on the Hub. made in 1833?

says. "Some of the specimens = my  
 Jack's Harbor plant". - ~~the~~

I suppose these are the Southern *J. echin-  
 atus* etc. [ = *scirpoides*? *pedunc. trifidiss. singl.*?  
 or = *paternus*? *glomer. 9-floris*?]  
~~habitus~~ *densi verticillat*



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